

Advanced Testing, Inspection & Maintenance of Electrical Systems

COURSE OVERVIEW

This course offers extensive knowledge and practical skills for ensuring the reliability, safety and optimal performance of electrical systems in industrial, commercial and utility settings. It covers advanced diagnostic techniques, predictive and preventive maintenance strategies, compliance with international standards and the application of modern tools for testing and fault detection. Through a combination of theoretical insights, case studies, and hands on exercises, participants will gain the expertise required to manage electrical assets effectively and reduce downtime while enhancing operational efficiency.

WHO SHOULD ATTEND?

This course is designed for electrical engineers, maintenance supervisors, technicians, inspectors, utility professionals and facility managers who are responsible for the safe and efficient operation of electrical systems. It is also valuable for consultants, project engineers, and technical professionals seeking to upgrade their skills in advanced inspection, troubleshooting and maintenance practices.

COURSE OUTCOMES

Delegates will gain the skills and knowledge to:

- Apply advanced testing methods for evaluating the performance and condition of electrical systems.
- Conduct systematic inspections in line with international codes and best practices.
- Develop and implement preventive and predictive maintenance programs.
- Identify, analyze, and resolve electrical faults effectively to minimize system failures.
- Enhance safety, reliability, and efficiency in electrical operations.
- Use digital tools and monitoring technologies to improve maintenance and asset performance.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand;

- Advanced diagnostic and fault analysis techniques.
- Preventive, predictive, and condition-based maintenance strategies.
- Practical use of modern testing and inspection equipment.
- Compliance with international standards and regulations.
- Real-world case studies and practical troubleshooting sessions.
- Strategies for minimizing downtime and extending equipment lifespan.

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded